Attachment 4.3 – Supporting Documents

Budget

<u>Project C - Cottonwood Creek, Berenda Creek, and Dry Creek Arundo Eradication</u> <u>and Sand Removal</u>

Madera Region – IRWM Implementation Grant Application

Table of Contents

Detailed Budget Costs	3
Total Arundo Eradication Costs	7
Total Sediment Removal Costs	9
Shredding Costs	11
Spraying Costs	13
Raptor Survey Cost Estimate	15

Attachment 4.3 – Detailed Budget Costs

Detailed Budget

Proposal Title: Madera Region IRWM Implementation Projects

Project Title: Madera Irrigation District Arundo Eradication and Sediment Removal Project

Budget Note #	Budget Category/Task Number	Hours		n-State are*	(b) Requested Grant Funding	(c) Other State Funds Being Used		(e) Task/ Category Subtotals	(f) % Funding Match
budget Note #	budget eategory, rusk rumber	110413	Nate		runung	Oseu		Jubiolais	
(a) Direct Project Administration Costs								
1.	1 Preparation of invoices to Applicant	240	\$76	\$18,240			\$18,240		100%
	Task 1 - Administration Subtotal			\$18,240			\$18,240		100%
2.	1 Submission of County's Labor Compliance program to DWR			\$0	\$2,000		\$2,000		0%
	Task 2 - Labor Compliance Program Subtotal			\$0	\$2,000		\$2,000		0%
3.	1 Preparation and submission of quarterly project reports to Applicant	300	\$42	\$12,600			\$12,600		100%
3.	2 Preparation and submission of annual project reports to Applicant	30	\$42	\$1,260			\$1,260		100%
3.	3 Preparation and submission of final project report to Applicant	40	\$42	\$1,680			\$1,680		100%
3.	4 Participate in Partnership Meetings	128	\$76	\$9,728			\$9,728		100%
	Task 3 - Reporting Subtotal			\$25,268			\$25,268		100%
	4 Development of Financing - Not Applicable			\$0			\$0		0%
	Task 4 - Development of Financing Subtotal			\$0			\$0		0%
	A Direct Dunie et Administration Contratal			\$43,508	\$2,000		\$45,508		96%
(t	a) Direct Project Administration Costs Total b) Land Purchase/Easement								
(t				\$0 \$0			\$0 \$0		0% 0 %
(t	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable			\$0			\$0		
(k	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable			\$0			\$0		
(1)	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal			\$0			\$0		
(1)	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation			\$0 \$0			\$0 \$0		0%
(6	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable			\$0 \$0			\$0 \$0		0% 0% 0%
(6	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable Task 6 - Assessment and Evaluation Subtotal			\$0 \$0 \$0 \$ 0			\$0 \$0 \$0 \$0		0%
(t	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable Task 6 - Assessment and Evaluation Subtotal 7 Final Design, Deliverables: – not applicable			\$0 \$0 \$0 \$0 \$0			\$0 \$0 \$0 \$0 \$0 \$0		0% 0% 0% 0%
(t	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable Task 6 - Assessment and Evaluation Subtotal 7 Final Design, Deliverables: – not applicable Task 7 - Final Deisgn Subtotal			\$0 \$0 \$0 \$0 \$0 \$0			\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		0% 0% 0%
(t	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable Task 6 - Assessment and Evaluation Subtotal 7 Final Design, Deliverables: – not applicable Task 7 - Final Deisgn Subtotal 1 Preparation and filing of Notice of Exemption-County will do for MID	60	\$42	\$0 \$0 \$0 \$0 \$0 \$0 \$0			\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		0% 0% 0% 0% 0% 0%
(t) (d) 8. 9.	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation - not applicable Task 6 - Assessment and Evaluation Subtotal 7 Final Design, Deliverables: - not applicable Task 7 - Final Deisgn Subtotal 1 Preparation and filing of Notice of Exemption-County will do for MID Task 8 Environmental Documentation Subtotal	60 120	\$42 \$42	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0			\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		0% 0% 0% 0% 0% 0% 0%
(t) (d) 8. 9. 9.	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable Task 6 - Assessment and Evaluation Subtotal 7 Final Design, Deliverables: – not applicable Task 7 - Final Deisgn Subtotal 1 Preparation and filing of Notice of Exemption-County will do for MID Task 8 Environmental Documentation Subtotal 1 Create application for five year renewal of 1602 Stream Bed Alteration Permit			\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$			\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$		0% 0% 0% 0% 0% 0% 0% 100%
8. 9. 9.	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable Task 6 - Assessment and Evaluation Subtotal 7 Final Design, Deliverables: – not applicable Task 7 - Final Deisgn Subtotal 1 Preparation and filing of Notice of Exemption-County will do for MID Task 8 Environmental Documentation Subtotal 1 Create application for five year renewal of 1602 Stream Bed Alteration Permit 2 Create application for 401 and 404 permits	120	\$42	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,520 \$5,040			\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$		0% 0% 0% 0% 0% 0% 0% 100%
8. 9. 9. 9.3. 9.3.	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable Task 6 - Assessment and Evaluation Subtotal 7 Final Design, Deliverables: – not applicable Task 7 - Final Deisgn Subtotal 1 Preparation and filing of Notice of Exemption-County will do for MID Task 8 Environmental Documentation Subtotal 1 Create application for five year renewal of 1602 Stream Bed Alteration Permit 2 Create application for 401 and 404 permits 1 Draft Landowner Access Agreement for sediment removal work	120 24	\$42 \$42	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,520 \$5,040 \$1,008			\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,008 \$672		0% 0% 0% 0% 0% 0% 0% 100% 100%
8. 9. 9. 9.3. 9.3. 9.3.	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable Task 6 - Assessment and Evaluation Subtotal 7 Final Design, Deliverables: – not applicable Task 7 - Final Deisgn Subtotal 1 Preparation and filing of Notice of Exemption-County will do for MID Task 8 Environmental Documentation Subtotal 1 Create application for five year renewal of 1602 Stream Bed Alteration Permit 2 Create application for 401 and 404 permits 1 Draft Landowner Access Agreement for sediment removal work 2 Legal review of Access Agreement and comment	120 24 3	\$42 \$42 \$224	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,008 \$672	\$9,000		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,520 \$5,040 \$1,008		0% 0% 0% 0% 0% 0% 0% 100%
8. 9. 9. 9.3. 9.3. 9.3.	b) Land Purchase/Easement 5 Land Purchase/Easement - not applicable Task 5 - Land Purchase/ Easement Subtotal c) Planning/Design/Engineering/ Environmental Documentation 6 Assessment and Evaluation – not applicable Task 6 - Assessment and Evaluation Subtotal 7 Final Design, Deliverables: – not applicable Task 7 - Final Deisgn Subtotal 1 Preparation and filing of Notice of Exemption-County will do for MID Task 8 Environmental Documentation Subtotal 1 Create application for five year renewal of 1602 Stream Bed Alteration Permit 2 Create application for 401 and 404 permits 1 Draft Landowner Access Agreement for sediment removal work 2 Legal review of Access Agreement and comment 3 Obtain signed Access Agreements from landowners	120 24 3	\$42 \$42 \$224	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,008 \$672 \$1,008	\$9,000 \$9,000		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,008 \$672 \$1,008		0% 0% 0% 0% 0% 0% 0% 100% 100%

Budget Note # Budget Category/Task Number	Hours	r	a) Non-State Share*	(b) Requested Grant Funding	(c) (Other State T Funds Being Used	(d) Fotal	(e) Task/ Category Subtotals	
(d) Implementation								
10 Draft Implementation Contract-not applicable			\$0			\$0		0%
Task 10 - Implementation Contracting Subtotal			\$0			\$0		0%
11.1.1 First year Arundo eradicationmulch, spray, and daub			\$0	\$676,855		\$676,855		0%
11.1.2 Second year Arundo eradicationmulch, spray, and daub			\$0	\$398,150		\$398,150		0%
11.1.3 Third year Arundo eradicationmulch, spray, and daub			\$0	\$238,890		\$238,890		0%
11.2 Notices sent to adjacent landowners	32	\$42	\$1,344			\$1,344		100%
11.3 Sediment removal			\$515,326			\$515,326		100%
Task 11 - Implementation Subtotal			\$516,670	\$1,313,895		\$1,830,565		28%
(d) Implementation Total			\$516,670	\$1,313,895	!	\$1,830,565		28%
(e) Environmental Compliance/Mitigation/Enhancement								
Task 12 - Environmental Compliance/Mitigation Subtotal			\$0			\$0		0%
(e) Environmental Compliance/Mitigation/Enhancement Total			\$0			\$0		0%
(f) Project Management/Administration								
13.1.1 Oversight of Arundo spraying and mulching activities	240	\$42	\$10,080			\$10,080		100%
13.1.2 Oversight of Sediment removal	240	\$42	\$10,080			\$10,080		100%
13.2 Data Collection and Monitoring Oversight	360	\$42	\$15,120			\$15,120		100%
Task 13 - Project Management and Oversight Subtotal			\$35,280			\$35,280		100%
(f) Project Management/Administration Total			\$35,280			\$35,280		100%
(g) Other Costs								
14.1.1 Raptor and Avian surveys and monitoring			\$0	\$22,800		\$22,800		0%
14.1.2 Conduct baseline studies	340	\$76	\$0	\$25,826		\$25,826		0%
14.2 Monitoring and inspection for SWPPP				\$2,500		\$2,500		0%
14.3 Monitoring and inspection for ACE 401/404 permits	120	\$42	\$5,040			\$5,040		100%
14.4.1 Monitoring and Report on the kill rate on Arundo	96	\$42	\$4,032			\$4,032		100%
14.4.2 Report on cubic yards/tons of sediment removed	24	\$42	\$1,008			\$1,008		100%
14.5.1 DFG Permit Renewal Fees				\$224		\$224		0%
14.5.2 401 and 404 Permit Fees				\$120,000		\$120,000		0%
14.6 Contingency for future surveys that may be required at permit renewal				\$30,000		\$30,000		0%
Task 14- Other Cost Subtotal			\$10,080	\$201,350		\$211,430		5%
(g) Other Costs			\$10,080	\$201,350		\$211,430		5%
(h) Implementation Contingency								
15 Implementation Contingency (20%)			\$103,334	\$262,779		\$366,113		28%
(h) Implementation Contingency Total			\$103,334	\$262,779		\$366,113		28%
(i) Grand Total (Sum rows (a) through (h) for each column)			\$719,120	\$1,789,024		\$2,508,144		29%

Attachment 4.3 - Total Arundo Eradication Costs

COST ESTIMATE Total Arundo Eradication Costs (Spray, Shred, and Cut and Daub)

Madera Irrigation District			DATE CONTRACT NO. STA. NO.	12/10/2010
DESCRIPTION OF WORK:				
Shred, spray and cut and daub 1 mi	le of cree	ek on both sides		
Shred		\$ 11,113.15		
Spray Total		\$ 24,320.00		
Cut and Daubing Total		\$ 4,382.00		
Total per				
mile		\$ 39,815.15		
First year Arundo infestation	17	miles		
Second year Arundo infestation*	10	miles		
Third year Arundo infestation*	6	miles		
			¢1 212 000 70	
Total	33	miles	\$1,313,899.79	

^{*}Based on 40% success rate

Attachment 4.3 - Total Sediment Removal Costs

COST ESTIMATE Sediment Removal

DATE	12/10/2010
STA. NO.	
	CONTRACT NO.

	LABOR AND EQUIPMENT			
EQUIP NO.	DESCRIPTION	HRS	RATE	AMOUNT
	Dump truck with			
	operator	24	\$ 90.00	\$ 2,160.00
	Dump truck with			
	operator	24	\$ 90.00	\$ 2,160.00
	Dump truck with			
	operator	24	\$ 90.00	\$ 2,160.00
	D6H with			
	operator	24	\$ 125.00	\$ 3,000.00
	Gradall with			
	operator	24	\$ 140.00	\$ 3,360.00
	Water truck with			
	operator	24	\$ 136.00	\$ 3,264.00
				\$ -

 TOTAL EQUIPMENT
 \$ 16,104.00

 TOTAL EQUIPMENT
 \$ 16,104.00

 TOTAL BILLING
 \$ 16,104.00

Attachment 4.3 - Arundo Shredding Costs

COST ESTIMATE Shredding costs

<u>Madera Irrigation District</u>	DATE	12/10/2010
	CONTRACT NO.	
	STA.	
	NO.	
DESCRIPTION OF WORK:		
Shred 1 mile of creek on both sides in 40 hours		
Assume 2 man		
Drow.		

LABC)R		REGULAR TIME OVER TIME						TOTAL
		HRS	RATE	AMOUNT	HRS	RATE	AMOUNT		
			\$			\$			
Maintenance	2 Man	80	20.39	\$ 1,631.20		30.59	\$ -	\$	1,631.20
			\$ -	\$ -		\$ -	\$ -	\$	-
				\$ -		\$ -	\$ -	\$	-
				SUBTOTAL LABO	R			\$	1,631.20
				SURCHARGE			90.85%	\$	1,481.95
				TOTAL LABOR				\$	3,113.15

	EQUIPMENT				
EQUIP NO.	DESCRIPTION	HRS	RATE	Α	MOUNT
	Excavator with shredder head	40	\$ 200.00	\$	8,000.00
			\$ -	\$	-
				\$	-
	TOTAL EQUIPMENT			\$	8,000.00

	MATERIAL			
DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
		Χ		
	SUBTOTAL MATER	RIAL	•	\$ -
	MATERIAL TAX	0.0775		\$ -
	TOTAL MATERIAL			\$ -
	TOTAL LABOR			\$ 3,113.15
	TOTAL EQUIPMEN	T		\$ 8,000.00
	SHIPPING			\$ -
	TOTAL BILLING			\$ 11 113 15

Attachment 4.3 – Arundo Spraying Costs

				(COST	ESTIMATE						
					Spra	ying Costs						
Madera Irrigatio	n District							DA	TE			12/10/2010
								CC	NTRAC	TN	IO.	
								ST	A. NO.			
DESCRIPTION	OF WORK:											
Spray 1 mile of	creek on bo	oth sides v	vith I	nerbicid	e to c	ontrol Arun	do Donax i	n 7	days			
Assume 2 man	crew spray	ing 70 gall	ons	of Glyp	hosate	e in 5% sol	ution per da	ay	-			
Using drift retar												
LABO	R		REC	GULAR				OVE	R TIME	E		TOTAL
		HRS	F	RATE	Al	MOUNT	HRS		RATE	А١	JOUNT	
Maintenance	Man	56	\$	20.39	\$	1,141.84		\$	30.59	\$		\$ 1,141.84
Maintenance	Man	56	\$	20.39	\$	1,141.84		\$	30.59	\$	-	\$ 1,141.84
			\$	-	\$	-		\$	-	\$	-	\$ -
					\$	-		\$	-	\$	-	\$ -
					SUB	TOTAL LA	3OR					\$ 2,283.68
					SUR	CHARGE					90.85%	\$ 2,074.72
					TOTA	AL LABOR						\$ 4,358.40
		EQUI	PMF	NT								
EQUIP NO.				SCRIP	TION				HRS	ı	RATE	AMOUNT
	Spray Truc	:k							56	\$	45.00	\$ 2,520.00
	opia, iia		_						-	\$	-	\$ -,020:00
										Ť		\$ _
												\$
					TOTA	AL EQUIPM	IENT					\$ 2,520.00
					M	ATERIAL						
	DESCRIP	TION			1	UNIT	QUANIT	Υ		F	PRICE	AMOUNT
		_					-1.2		Χ			
Glyphosate 5%	solution					gallon	490		Χ	\$	23.00	\$ 11,270.00
Penetrant 1.0%						gallon	98		X	\$	24.00	\$ 2,352.00
Drift Retardant (ion			_	ounce	700		X	\$	0.75	\$ 525.00
Blue Dye 0.29%						gallon	28.42		X	\$		1,136.80
Water Condition					_	gallon	43		X	\$	21.00	\$ 903.00
30					1	J	.0		X	\$	-	\$ -
					SUB	TOTAL MA	TERIAL			Ť		\$ 16,186.80
						ERIAL TAX			0.0775			\$ 1,254.48
						AL MATERI						\$ 17,441.28
						AL LABOR						\$ 4,358.40
			-									\$ 2,520.00
					11()14	ᄭᄓᅜᄼᅥᅥ	/IFINI					
						AL EQUIPM PING	IEN I					\$ -

Attachment 4.3 - Raptor Survey Cost Estimate



9 December 2010

Dina Nolan Madera Irrigation District (MID) 12152 Road 28 ¹/₄ Madera, CA 93637

RE: Proposal to Conduct Nesting Bird Surveys

Dear Dina,

Based on our phone conversation, I understand that MID intends to carry out maintenance activities, including removal of sediment and giant reed (*Arundo donax*), along 32 miles of stream channel in Madera County, California. The work would occur along stretches of Cottonwood Creek, Berenda Creek, and Dry Creek in late July or early August. In compliance with the general provisions of the Streambed Alteration Agreement for this project, a pre-activity survey for active bird nests must be conducted no more than two weeks before the start of work. We propose to assist MID in satisfying this obligation as outlined below.

Task 1. Nesting Bird Surveys

A qualified biologist will perform walking transect surveys for active bird nests within 500 feet of the proposed work areas. Any active nest detected will be identified and its location will be mapped. Special attention will be given to identifying any active nest of the state-listed threatened Swainson's hawk (*Buteo swainsoni*), a species known to nest in the region and highlighted in the Streambed Alteration Agreement for this project.

Task 2. Reporting

A brief letter report summarizing the methods and results of the surveys will be prepared for MID's records or submittal to the California Department of Fish and Game if required. The report will include a figure showing the areas surveyed and the locations of any active nests. We will submit the report to MID no more than two days after the last survey.

Task 3. Coordination

I will be responsible for coordinating the surveys and ensuring the report is prepared and submitted in a timely manner.

Fee Estimate

The cost estimate for completing all tasks outlined above is \$5700. The table below provides a cost estimate for each task. Additional services can be completed under a separate contract or on a time-and-charges basis, if required.

Table 1. Fee Estimate

TASKS	COST
Task 1. Nesting Bird Surveys	\$ 3200
Task 2. Reporting	\$ 1336
Task 3. Coordination	\$ 947
Direct Costs (mileage, GIS/database usage, mailings and teleconferencing)	\$ 217
Total Budget	\$ 5700

Assumptions

In formulating this cost estimate, I assumed there are no obstacles to accessing the work areas, and that any necessary gate keys, lock combinations, or other arrangements with the property owners will be made. Also, I anticipate that no more than three (3) field days will be required to survey the 32 miles of stream channel. If additional days are required, modification of this scope and cost estimate may be required.

Should you have any questions, feel free to contact me at any time.

Best regards,

Jeff N. Davis

Project Manager and Senior Wildlife Ecologist

Office: (559) 476-3164 Cell: (559) 246-3272

Email: jdavis@harveyecology.com